Montana Board of Oil and Gas Conservation Environmental Assessment

Operator: Newfield Production Company
Well Name/Number: Peacemaker #1-5H
Location: NW NW Section 5 T33N R6W
County: Glacier , MT; Field (or Wildcat) W/C
Air Quality
(possible concerns)
Long drilling time: 15 to 30 days drilling time.
Unusually deep drilling (high horsepower rig): No, super single drilling rig for a 6235'TD
vertical pilot hole. Plug back to 4649' and kick off a single lateral Bakken Formation
horizontal well 9,166' MD/4,640' TVD.
Possible H2S gas production: Slight In/pear Class Leir quality area. Plackfast Reservation
In/near Class I air quality area: Yes, Class I air quality area, Blackfeet Reservation.
Air quality permit for flaring/venting (if productive): Yes, DEQ air quality permit required
under 75-2-211.
Mitigation:
_X Air quality permit (AQB review)
Gas plants/pipelines available for sour gasSpecial equipment/procedures requirements
Other:
Comments: Super single drilling rig to drill a vertical basement test pilot hole to
6235' TD and plug back to 4649' and kick off a single lateral horizontal Bakken
Formation test to 9166'MD/4,640'TVD.
Tomation test to 3100 MD/4,040 TVD.
Water Quality
(possible concerns)
Salt/oil based mud: Use freshwater and freshwater mud system on surface, pilot hole
and horizontal hole drilling.
High water table: None anticipated.
Surface drainage leads to live water: No, closest drainage is an unnamed ephemeral
tributary drainage to Cut Bank Creek, about ¼ of a mile to the south and east from this
location.
Water well contamination: No, closest water wells are about ½ of a mile to the east and
3/4 of a mile to the northeast of this location. Depth of these water wells are 95' and 133'
Surface casing hole will be drilled with freshwater and freshwater muds to 1000' and
steel surface casing run and cemented to surface.
Porous/permeable soils: No, rocky sandy clay soils.
Class I stream drainage: No Class I stream drainage.
Mitigation:
X Lined reserve pit
_X Adequate surface casing
Berms/dykes, re-routed drainage
Closed mud system
Off-site disposal of solids/liquids (in approved facility)
Other:
Comments: 1000' of surface casing cemented to surface adequate to protect
freshwater zones to cover base of the Eagle Formation. Also, fresh water mud
systems to be used on surface hole.

Soils/Vegetation/Land Use

(possible concerns)
Steam crossings: None anticipated.
High erosion potential: No, moderate cut, up to 9.5' and moderate fill required up to
10.0', required.
Loss of soil productivity: No, location will be restored after drilling, if nonproductive. If
productive unused portion of drillsite will be reclaimed.
Unusually large wellsite: No, large, 400'X300' location size required.
Damage to improvements: Slight, surface use is an sprinkler irrigated crop field.
Conflict with existing land use/values: Slight
Mitigation ————
Avoid improvements (topographic tolerance)
Exception location requested
X Stockpile topsoil
Stream Crossing Permit (other agency review)
X Reclaim unused part of wellsite if productive
Special construction methods to enhance reclamation
Other
Comments: Using existing county roads, Pendergrass Road. Access off existing
Pendergrass road, approximately 1540' of new road will be constructed into this location.
Cuttings will buried in the lined reserve pit. Drilling fluids will be allowed to dry in the
lined pit. Pit will be backfilled when dry. No special concerns
Health Hazards/Noise
(nassible concerns)
(possible concerns)
Proximity to public facilities/residences: Closest residence is about ¼ of a mile to the
east northeast from this wellsite. The town of Cut Bank, Montana is 4 miles to the east
southeast from this location. Possibility of H2S: Slight
Size of rig/length of drilling time: Super Single drilling rig 15 to 30 days drilling time.
Mitigation:
X_Proper BOP equipment
Topographic sound barriers
_X_H2S contingency and/or evacuation plan
Special equipment/procedures requirements
Other:
Comments: No concerns, proper BOP stack and surface casing should be able
to control any problems that occurs.

Wildlife/recreation

(possible concerns)

Proximity to sensitive wildlife areas (DFWP identified): None, identified Proximity to recreation sites: None identified.

Proximity to recreation sites: None identified.

Creation of new access to wildlife habitat: No

Conflict with game range/refuge management: No

Threatened or endangered Species: <u>Species identified as threatened or endanger in Glacier County are Grizzly Bear, Canada Lynx and Bull Trout.</u>
Mitigation:
Avoidance (topographic tolerance/exception)
Other agency review (DFWP, federal agencies, DSL)
Screening/fencing of pits, drillsite
Other:
Comments: Private cultivated surface lands. Drilling of this well should not impact any of species listed above. No concerns
impact any or species listed above. No concerns
Historical/Cultural/Paleontological
(possible concerns)
Proximity to known sites None identified
Mitigation
avoidance (topographic tolerance, location exception)other agency review (SHPO, DSL, federal agencies)
Other:
Comments: Private cultivated surface lands. No concerns
Social/Economic
(possible concerns)
Substantial effect on tax base
Create demand for new governmental services
Population increase or relocation Comments: No concerns
Comments. <u>No concerns</u>
Remarks or Special Concerns for this site
Well is a vertical basement test pilot hole to 6235' TD and plug back to 4649' and kick off
a single lateral horizontal Bakken Formation test to 9166'MD/4,640'TVD.
Summary: Evaluation of Impacts and Cumulative effects
No long term impacts expected . Some short term impacts will occur.
No long term impacts expected. Some short term impacts will occur.
I conclude that the approval of the subject Notice of Intent to Drill (does/does not)
constitute a major action of state government significantly affecting the quality of the
human environment, and (does/ <u>does not</u>) require the preparation of an environmental impact statement.
Prepared by (BOGC):_\s\Steven Sasaki
(title:) Chief Field Inspector
Date: March 16, 2010
Other Persons Contacted:
Montana Bureau of Mines and Geology, GWIC website

(Name and Agency)	
Glacier County water wells	
(subject discussed)	
March 16, 2010	
(date)	
US Fish and Wildlife, Region 6 website	
(Name and Agency)	
ENDANGERED, THREATENED, PROPOSED AND CANDIDATE SP	PECIES
MONTANA COUNTIES, Glacier County	
(subject discussed)	
March 40, 0040	
March 16, 2010	
(date)	
If location was inspected before permit approval:	
Inspection date:	
Inspector:	
Others present during inspection:	